

Docket No.: 53674-015



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Hitoshi SUMIYA, et al.

Serial No.: 09/462,876

Filed: January 18, 2000

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Group Art Unit: 1755

Examiner: K. Group

For: CUTTING TOOL OF A CUBIC BORON NITRIDE SINTERED COMPACT

AMENDMENT UNDER 37 C.F.R. §1.114

Commissioner for Patents  
Washington, DC 20231

Sir:

The following Amendment and Remarks are submitted in response to the Office Action dated June 6, 2001.

IN THE CLAIMS:

Please amend claim 1 as follows:

61 Subj 1. (Amended) A cutting tool comprising, as an edge part, a cubic boron nitride sintered compact containing cubic boron nitride having an average grain diameter of at most 1  $\mu\text{m}$ , in which the cubic boron nitride sintered compact has, at the said edge part, an  $I_{(220)}$ ,  $I_{(111)}$  of (220) diffraction intensity ( $I_{(220)}$ ) to (111) diffraction intensity  $I_{(111)}$  ratio of at least 0.05 in X-ray diffraction of arbitrary direction and impurities are substantially not contained in the grain boundaries, wherein the transverse rupture strength of the said cubic boron nitride sintered

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